Page No: 2

Date: July 23, 2007

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

Claims 1-6 (Canceled)

- 7. (Currently amended) The monoclonal antibody of claim 1 33, wherein the antibody is in a form of scFv.
- 8. (Currently amended) The monoclonal antibody of claim 4 33, wherein the antibody is in a form of Fab.
- 9. (Currently amended) The monoclonal antibody of claim ± 33 , wherein the antibody is in a form of fully assembled antibody.

Claims 10-12 (Canceled)

13. (Withdrawn) A monoclonal antibody that specifically binds to a human VEGF and has V_L comprising the amino acid sequence of

 $X_{1}X_{2}X_{3}X_{4}TQX_{5}PSX_{6}X_{7}SX_{8}X_{9}X_{10}GX_{11}X_{12}X_{13}X_{14}IX_{15}C\underline{X}_{16}\underline{X}_{17}\underline{S}X_{18}X_{19}\underline{IX}_{20}\underline{X}_{21}\underline{X}_{22}X_{23}X_{24}WYQQX_{2} \\ {}_{5}PGX_{26}APX_{27}X_{28}LX_{29}Y\underline{X}_{30}X_{31}\underline{X}_{32}X_{33}\underline{LX}_{34}\underline{X}_{35}GVX_{36}X_{37}RFSGX_{38}X_{39}SGTDFX_{40}LTIX_{41}X_{42}LQX_{43} \\ X_{44}DX_{45}AX_{46}YYC\underline{QQX}_{47}\underline{X}_{48}\underline{X}_{49}\underline{X}_{50}PX_{51}TFGX_{52}GTKX_{53}X_{54}IK, \text{ wherein the underlined regions are designated as $V_{L}/CDR1$, $V_{L}/CDR2$, and $V_{L}/CDR3$, respectively, whereas the rest of the region is designated as framework, and wherein X_{1} is D, E or A; X_{2} is I, or T; X_{3} is V, E, K, R, Q, or T; X_{4} is M, or L; X_{5} is S, or T, X_{6} is S, or T; X_{7} is L, or V; X_{8} is A, or V; X_{9} is S, or T; X_{10} is P, V, L, A, or I; X_{11} is E, or D; X_{12} is R, or T; X_{13} is A, or V; X_{14} is T, or A; X_{15} is T, S, or A; X_{16} is S, R, N, K, H, or Q; X_{17} is A, or S; X_{18} is Q, or R; X_{19} is S, D, A, or P; X_{20} is S, G, R, T, or Y; X_{21} is T, N, S, D, or K; X_{22} is Y, or D; X_{23} is L, or I; X_{24} is A, N, or T; X_{25} is K, or I; X_{26} is Q, K, T, or I; X_{27} is R, K, Q, N, H, S, or E; X_{28} is V, or L; X_{29} is I, or V; X_{30} is F, A, G, D, or S; X_{31} is A, or T; X_{32} is S, or T; X_{33} is N, S, R, or T; X_{34} is A, H, or Q; X_{35} is S, or G; X_{36} is P, T; X_{37} is S, N, D, G, or Y; X_{38} is S, or T; X_{39} is G, or R; X_{40} is T, or A; X_{41} is S, or R; X_{42} is S, or R; X_{43} is P, or A;}$

Page No: 3

Date: July 23, 2007

 X_{44} is E, or D; X_{45} is F, V, or S; X_{46} is V, T, I, A, or S; X_{47} is Y, or S; X_{48} is S, Y, or N; X_{49} is S, or T; X_{50} is T, V, A, P, K, G, S, or I; X_{51} is W, or Y; X_{52} is Q, or G; X_{53} is V, or L; and X_{54} is E, D, or A.

- 14. (Withdrawn) A monoclonal antibody that specifically binds to a human VEGF and has V_L comprising the amino acid sequence of
- $X_1X_2X_3LTQPPSX_4SX_5TPGQX_6VTISCS\underline{GX_7X_8SNX_9GX_{10}NX_{11}VX_{12}}WYQQX_{13}PGX_{14}APKX_{15}LX_{16}Y\underline{X_{17}NX_{18}X_{19}RPS}GVPX_{20}RX_{21}SGSX_{22}SX_{23}TSASLAISGLX_{24}SEDEADYYC\underline{X_{25}X_{26}WDDSLX_{27}}G\underline{YV}FGX_{28}GTX_{29}LTVL$, wherein the underlined regions are designated as $V_L/CDR1$, $V_L/CDR2$, and $V_L/CDR3$, respectively, whereas the rest of the region is designated as framework, and wherein X_1 is Q L, or N; X_2 is P A P, or P S; P A P F, or P S; P F, P
- 15. (Withdrawn) A monoclonal antibody that specifically binds to a human VEGF and has V_L comprising the amino acid sequence of QSALTQPPSVSGAPGQRVTISCTGRSSNIGAGHDVHWYQQLPGTAPKLLIYANDQRPSGVP DRFSDSKSGTSASLGISGLRSEDEADYFCATWDDSLHGYVFGTGTKVTVL (SEQ ID No: 54).
- 16. (Withdrawn) A monoclonal antibody is provided that specifically binds to a human VEGF and has V_H comprising the amino acid sequence of X₁X₂QLVX₃SGGGX₄VQPGGX₅LRLX₆CAX₇SGX₈X₉X₁₀X₁₁X₁₂X₁₃GX₁₄NWX₁₅RQAPGKGX₁₆E WVGWX₁₇NTX₁₈X₁₉GX₂₀X₂₁TYX₂₂X₂₃X₂₄FX₂₅RRX₂₆TX₂₇SX₂₈X₂₉X₃₀SKX₃₁X₃₂X₃₃YLQX₃₄NSL RAEDTAVYYCAX₃₅YPX₃₆YYGX₃₇SHWYFDVWX₃₈QGTLVTVSS, wherein the underlined regions are designated as CDR1, CDR2, and CDR3, respectively, whereas the rest of the region is designated as framework according to Kabat nomenclature, and wherein X₁ is E, or Q; X₂ is V, or G; X₃ is Q, or E; X₄ is V, or L; X₅ is S, or T; X₆ is S T, or R; X₇ is A, or V; X₈ is Y, or F; X₉ is T, D, N, S, or A; X₁₀ is F, or L; X₁₁ is T, D, Y, A, S, or N; X₁₂ is N, H, or S; X₁₃ is Y, or F; X₁₄ is M, L, I,

Page No: 4

Date: July 23, 2007

or V; X_{15} is I, V, or L; X_{16} is L, or P; X_{17} is I, or V; X_{18} is Y, or N; X_{19} is T, or N; X_{20} is E, or A; X_{21} is P, T, or S; X_{22} is A, or V; X_{23} is A, H, Q, P, D, or E; X_{24} is D, or E; X_{25} is K, or T; X_{26} is V, F, or L; X_{27} is F, or I; X_{28} is L, or R; X_{29} is D, or N; X_{30} is T, or N; X_{31} is S, or N; X_{32} is T, Q, P, or K; X_{33} is A, V, or P; X_{34} is L, or M; X_{35} is K, or R; X_{36} is H, or Y; X_{37} is S, R, or T; and X_{38} is G, or A.

- 17. (Withdrawn) A monoclonal antibody is provided that specifically binds to a human VEGF and has V_L comprising the amino acid sequence selected from the group consisting of SEQ ID NOs:2-54, more preferably comprising the amino acid sequence selected from the group consisting of SEQ ID NO:14, SEQ ID NO:26, SEQ ID NO:28, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:44, SEQ ID NO:47, and SEQ ID NO:54.
- 18. (Withdrawn) A monoclonal antibody that specifically binds to a human VEGF and has V_H comprising the amino acid sequence selected from the group consisting of SEQ ID NOs:57-110 and SEQ ID NOs:285-310, and preferably comprising the amino acid sequence selected from the group consisting of SEQ ID NOs:61-64, SEQ ID NO:67, 68, 70, 75, 83, 88, 89, 90, 91, 92, 93, 94, and 96-110.
- 19. (Withdrawn) A monoclonal antibody is provided that specifically binds to a human VEGF and has CDR2 in the V_L region (V_L/CDR2) comprising the amino acid sequence selected from the group consisting of SEQ ID NOs:195-209.
 - 20. (Withdrawn) A monoclonal antibody that specifically binds to a human VEGF and has CDR3 in the V_L region (V_L /CDR3) comprising the amino acid sequence selected from the group consisting of SEQ ID NOs:210-228.
 - 21. (Withdrawn) A monoclonal antibody that specifically binds to a human VEGF and has a framework region (FR) CDR3 in the V_L region (V_L/FR) comprising the amino acid sequence selected from the group consisting of: SEQ ID NO:229-269, and preferably comprising the amino

Page No: 5

Date: July 23, 2007

acid sequence selected from the group consisting of SEQ ID NO:232, 235, 237, 251, 255, 263, and 265.

- 22. (Withdrawn) A monoclonal antibody that specifically binds to a human VEGF and has CDR1 in the V_H region (V_H /CDR1) comprising the amino acid sequence of $GX_1X_2X_3X_4X_5X_6GX_7N$, wherein X_1 is Y, or F; X_2 is D, N, T, S, or A; X_3 is F, or L; X_4 is T, D, S, Y, A, or N; X_5 is H, N, or S; X_6 is Y, or F; X_7 is M, L, I, or V.
- 23. (Withdrawn) A monoclonal antibody that specifically binds to a human VEGF and has CDR2 in the V_H region (V_H /CDR2) comprising the amino acid sequence of $WX_1NTX_2X_3GEX_4TYX_5X_6X_7FX_8R$, wherein X_1 is I, or V; X_2 is Y, or N; X_3 is T, or N; X_4 is P, T, or S; X_5 is A, or V; X_6 is A, Q, P, H, D, or E; X_7 is D, or E; and X_8 is K, or T.
- 24. (Withdrawn) A monoclonal antibody that specifically binds to a human VEGF and has CDR2 in the V_H region (V_H/CDR2) comprising the amino acid sequence selected from the group consisting of: SEQ ID NOs:136-156.
- 25. (Withdrawn) A monoclonal antibody that specifically binds to a human VEGF and has CDR3 in the V_H region (V_H /CDR3) comprising the amino acid sequence of KYPX₁YYGX₂SHWYFDV, wherein X_1 is Y, or H, and X_2 is R.
- 26. (Withdrawn) A monoclonal antibody that specifically binds to a human VEGF and has CDR3 in the V_H region (V_H/CDR3) comprising the amino acid sequence selected from the group consisting of SEQ ID NOs:311-337.
- 27. (Withdrawn) A monoclonal antibody that specifically binds to a human VEGF and has FR in the V_H region (V_H/FR) comprising the amino acid sequence of X₁VQLVX₂SGGGX₃VQPGGX₄LRLX₅CAX₆S/CDR1/WX₇RQAPGKGLEWVG/CDR2/RX₈TX₉S X₁₀DX₁₁SKX₁₂X₁₃X₁₄YLQX₁₅NSLRAEDTAVYYCA/CDR3/WX₁₆QGTLVTVSS, wherein X₁ is E, or Q; X₂ is Q, or E; X₃ is V, or L; X₄ is S, or T; X₅ is S, T, or R; X₆ is A, or V; X₇ is I, or V; X₈

Page No: 6

Date: July 23, 2007

is F, or V; X_9 is F, or I; X_{10} is L, or R is X_{11} is T, or N; X_{12} is S, or N; X_{13} is T, Q, or K; X_{14} is A, or V; X_{15} is M, or L; and X_{16} is G, or A.

- 28. (Previously Presented) A monoclonal antibody that specifically binds to a human VEGF and has a V_L and V_H pair selected from the group consisting of: SEQ ID NO:28 and 88; SEQ ID NO:28 and 90; SEQ ID NO:28 and 91; SEQ ID NO:28 and 106; SEQ ID NO:28 and 107; SEQ ID NO:28 and 108; and SEQ ID NO:28 and 109.
- 29. (Withdrawn) The monoclonal antibody of any of claims 14-29, wherein the antibody has dissociation constant K_d equal to or lower than 10 nM.
- 30. (Withdrawn) The monoclonal antibody of any of claims 14-29, wherein the antibody has dissociation constant K_d equal to or lower than 1 nM.
- 31. (Withdrawn) The monoclonal antibody of any of claims 14-29, wherein the antibody has dissociation constant K_d equal to or lower than 0.1 nM.
- 32. (Withdrawn) The monoclonal antibody of any of claims 14-29, wherein the antibody has dissociation constant K_d equal to or lower than 0.01 nM.
- 33. (Previously presented) A monoclonal antibody that specifically binds to human VEGF and has a VL and VH pair selected from the group consisting of: SEQ ID NO:26 and 88; SEQ ID NO:26 and 90; SEQ ID NO:26 and 91; SEQ ID NO:26 and 106; SEQ ID NO:26 and 107; SEQ ID NO:26 and 108; SEQ ID NO:26 and 109; SEQ ID NO:28 and 88; SEQ ID NO:28 and 90; SEQ ID NO:28 and 91; SEQ ID NO:28 and 106; SEQ ID NO:28 and 107; SEQ ID NO:36 and 109; SEQ ID NO:36 and 90; SEQ ID NO:36 and 91; SEQ ID NO:36 and 107; SEQ ID NO:36 and 109; SEQ ID NO:36 and 109; SEQ ID NO:36 and 109; SEQ ID NO:36 and 109.

Page No: 7

Date: July 23, 2007

34. (Previously presented) A monoclonal antibody that specifically binds to human VEGF and has a VL and VH pair selected from the group consisting of: SEQ ID NO:26 and 106; SEQ ID NO:28 and 106; and SEQ ID NO:36 and 106.

- 35. (Previously presented) A monoclonal antibody that specifically binds to human VEGF and has a V_L and V_H pair consisting of SEQ ID NO:28 and 106.
- 36. (New) A monoclonal antibody that specifically binds to human VEGF and has a VL domain consisting of SEQ ID NO:28 in combination with a VL domain selected from SEQ ID NO: 106, SEQ ID NO: 107 and SEQ ID NO:108 SEQ ID NO: 109, SEQ ID NO: 88, SEQ ID NO: 90, and SEQ ID NO: 91.
- 37. (New) The monocolonal antibody of claim 35, wherein the wherein the antibody is in a form of scFv.
- 38. (New) The monoclonal antibody of claim 35, wherein the antibody is in a form of Fab.
- 39. (New) The monoclonal antibody of claim 35, wherein the antibody is in a form of fully assembled antibody.
- 40. (New) A monoclonal antibody that specifically binds to a human VEGF and has a light chain variable domain comprising CDR1, CDR2 and CDR3 regions consisting of the amino acid sequences set forth in SEQ ID NO: 172, SEQ ID NO: 195 and SEQ ID NO: 212, respectively.
- 41. (New) The monoclonal antibody according to claim 40, wherein the heavy chain variable domain comprises CDR1, CDR2, and CDR3 regions consisting of the amino acid sequences set forth in SEQ ID NO: 31, SEQ ID NO: 152 and SEQ ID NO: 327, respectively.
- 42. (New) The monocolonal antibody of claim 41, wherein the wherein the antibody is in a form of scFv.
- 43. (New) The monoclonal antibody of claim 41, wherein the antibody is in a form of Fab.

Page No: 8

Date: July 23, 2007

44. (New) The monoclonal antibody of claim 41, wherein the antibody is in a form of fully assembled antibody.

- 45. (New) A monoclonal antibody that specifically binds to a human VEGF and has V_L comprising CDR1, CDR2 and CDR3 regions consisting of the amino acid sequences set forth in SEQ ID NO: 170, SEQ ID NO: 195 and SEQ ID NO: 214, respectively.
- 46. (New) A monoclonal antibody that specifically binds to a human VEGF and has a heavy chain variable domain which comprises CDR1, CDR2, and CDR3 regions consisting of the amino acid sequences set forth in SEQ ID NO: 31, SEQ ID NO: 152 and SEQ ID NO: 327, respectively.
- 47. (New) A monoclonal antibody that specifically binds to a human VEGF and has V_L comprising CDR1, CDR2 and CDR3 regions consisting of the amino acid sequences set forth in SEQ ID NO: 182, SEQ ID NO: 201 and SEQ ID NO: 222, respectively.
- 48. (New) An antibody heavy chain variable domain (VH) consisting of an amino acid sequence selected from SEQ ID NO: 88, SEQ ID NO: 90, SEQ ID NO: 91, SEQ ID NO: 106, SEQ ID NO:107, SEQ ID NO: 108 and SEQ ID NO:109.
- 49. (New) An antibody light chain variable domain (VL) consisting of an amino acid sequence selected from SEQ ID NO: 26, SEQ ID NO: 28, and SEQ ID NO:36.